

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2316.1545 W00	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US 01/ 28808	International filing date (day/month/year) 12/09/2001	(Earliest) Priority Date (day/month/year) 14/09/2000
Applicant ADC TELECOMMUNICATIONS, INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 2 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :
 - contained in the international application in written form.
 -
 - filed together with the international application in computer readable form.
 -
 - furnished subsequently to this Authority in written form.
 -
 - furnished subsequently to this Authority in computer readable form.
 -
 - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
 -
 - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. Certain claims were found unsearchable (See Box I).

3. Unity of invention is lacking (see Box II).

4. With regard to the **title**,

- the text is approved as submitted by the applicant.
- the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.

3 None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 01/28808

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L12/56 H04Q11/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 759 594 A (DIGITAL EQUIPMENT CORP) 26 February 1997 (1997-02-26)	1,2,12
A	figure 2 column 8, line 5 -column 12, line 40 ----- US 5 016 245 A (LOBJINSKI MANFRED ET AL) 14 May 1991 (1991-05-14) figure 6 column 1, line 65 -column 4, line 65 -----	3-11
A		1,9,10, 12

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

26 April 2002

Date of mailing of the international search report

07/05/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

Scalia, A

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/28808

Patent document cited in search report	Publication date	Patent family member(s)			Publication date
EP 0759594	A 26-02-1997	US	4968977 A		06-11-1990
		EP	0759594 A2		26-02-1997
		AT	161983 T		15-01-1998
		AT	203339 T		15-08-2001
		AU	628524 B2		17-09-1992
		AU	5393390 A		19-12-1991
		CA	1324835 A1		30-11-1993
		DE	68928530 D1		12-02-1998
		DE	68928530 T2		10-06-1998
		DE	68929317 D1		23-08-2001
		EP	0380851 A2		08-08-1990
		JP	2271460 A		06-11-1990
-----	-----	-----	-----	-----	-----
US 5016245	A 14-05-1991	AT	103443 T		15-04-1994
		AU	617231 B2		21-11-1991
		AU	4723189 A		28-06-1990
		CA	2006393 A1		23-06-1990
		DE	58907295 D1		28-04-1994
		EP	0374578 A2		27-06-1990
		JP	2224444 A		06-09-1990
		JP	2954245 B2		27-09-1999
-----	-----	-----	-----	-----	-----